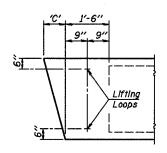
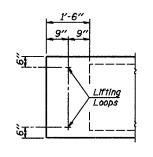


except as shown.

Ralph E. ander

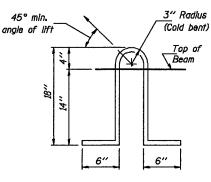
Engineer of Bridges and Structures





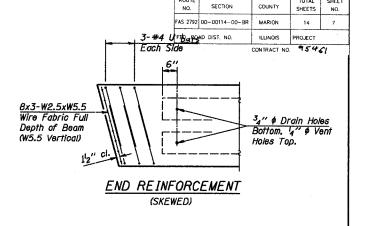
END BLOCK DETAILS

Each beam shall have four Lifting Loops, two at each end of beam cast in locations shown above. Loops shall be burned off after beams have been erected.

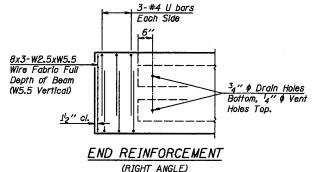


LIFTING LOOP DETAIL

Lifting loops shall be 2, 12"4-270 ksi strands, as shown. Alternate approved lifting devices are also acceptable.



TOTAL SHEET



DIMENSION 'C'

Skew Angle 'D'	°	5°	10°	15°	20°	25°	30°
Dimension 'C' (Inches)	0	3 ^l 8	6 ³ 8	9 ⁵ 8	13 ¹ 8	16 3 ₄	20 ³ 4

NOTES

The nominal diameter shall be 12" and the nominal cross-sectional area shall be

Rall Post anchor devices shall be cast into outside beam as elsewhere specified.

6. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material

prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas

 When a Waterproofing Membrane System is specified, the top surface of the beams shall be screeded with a straightedge and finished with a hand float. The finished surface shall be free of depressions or high spots with sharp corners and the top edge of keys

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60.

1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire

shall be rounded or chamfered a minimum of 4".

between the top of the beam and the bottom edge of the key.

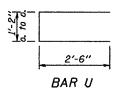
strand, Grade 270.

0.153 square inches.

* TRANSVERSE STRAND PLACEMENT GUIDELINES

- Place strands symmetrically about centerline of beam.
- 2. The minimum distance from center to center of strands in all directions shall be 2".
- The minimum clearance from strand to dowel hole shall be 2". 4. The minimum clearance from strand to void shall be 1/2".

Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



MIN. BAR LAP #5 bars = 1'-8"

DESIGN STRESSES

 $f'_{cl} = 4,000 p.s.l.$

f's = 270,000 p.s.i. (12" \$ Strand)

 $f_y = 60,000 \text{ p.s.l.}$

 $f_c' = 5,000 \text{ p.s.i.}$

fal = 201,960 p.s.i. (2" \$ Strand)

P.P.C. DECK BEAM DETAILS 24' ROADWAY 17" x 36" BEAMS STANDARD CB-2417-36

III-1